



Hecla Mining Company

ESCALANTE UNIT

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April 27, 1989

HOLLAND SHEPHERD
STATE OF UTAH DEPT. OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
335 WEST NORTH TEMPLE
3 TRIAD CENTER, SUITE 350
SALT LAKE CITY, UTAH 84180-1203

DIVISION OF
OIL, GAS & MINING

DOGM
MINERALS PROGRAM
FILE COPY

DEAR MR. SHEPHERD,

As per letter dated March 6, 1989 from State of Utah Dept. of Natural Resources Division of Oil, Gas and Mining, this is a proposal of sampling the tailings dam material.

We are recommending that a total of 4 samples be taken covering an area of approximately 2.6×10^6 square feet containing approximately 0.25 cubic feet per sample. These samples will be taken at the locations indicated on the attached map. Each sample will be a composite of material from the surface to a depth of approximately 4 feet. At the time of sampling the samples will be placed in a plastic bag, sealed to prevent moisture loss and shipped U.P.S.

After collection the samples will be sent to A&L Midwest Agricultural Labs per U.D.O.G.M. recommendation. Once the samples are received the samples will be individually tested for:

- A. Examine the nutrient and physical properties of the material for organic matter, nitrate nitrogen, available phosphorus, exchangeable potassium, Ph, cation exchange capacity, electrical conductivity, texture, sodium absorption ratio, selenium, boron and saturation percentage of cations.
- B. Evaluate the acid-base potential.

A composite of the four samples will then be made and tested for the following:

- A. Total cyanide
- B. EP toxicity analysis for inorganics: arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver.

If you have any comments or amendments please contact us, before May 23, 1989.

Sincerely,

Tanara Harlin
Environmentalist